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ACCESSION NUMBER: 1993-195323 [24] WPINDEX
DOC. NO. NON-CPI: N1993-150144
DOC. NO. CPI: C1993-086682
TITLE: Electric arc welding device with consumable electrodes -
has reverse unit to control direction of movement of
welding wire, and uses comparators to indicate zero,
working and standby voltages.
DERWENT CLASS: M23 P55 X24
INVENTOR(S): VOLOVIKOV, E V
PATENT ASSIGNEE(S): (PROG-R) PROGRESS WKS
COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
SU 1743752	A1	19920630	(199324)*		4	B23K009-10	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
SU 1743752	A1	SU 1990-4869851	19901001

PRIORITY APPLN. INFO: SU 1990-4869851 19901001

INT. PATENT CLASSIF.:

MAIN: B23K009-10

BASIC ABSTRACT:

SU 1743752 A UPAB: 19931116

During closing of a welding switch (17), a gas envelope supply valve is opened by a control unit (16) and the gas passes to a torch (2). After a determined period, a command is passed to a power source (1) and standby voltage produces a '1' from a comparator (7), connecting an ignition unit (13) to form the required ignition mode. An electrode wire feed mechanism (7) is connected through a parameter setting unit (14) and a comparator (6) forms a '1' during contact of the wire with the article.

A reverse unit (11) is then connected, to reverse the direction of movement of the wire. After striking of an arc, comparator (6) forms an '0', disconnecting unit (11) and passage of the wire to the article and a second comparator (8) is triggered by the working voltage, to connect a mode unit (12). Comparator (8) forms a '0' and unit (13) is disconnected. The welding current is then increased smoothly through a unit (15) until welding is finished.

USE/ADVANTAGE - For automatic electric arc welding with consumable electrodes. Better weld quality is obt'd. Bul.24/30.6.92
Dwg. 1/1

FILE SEGMENT: CPI EPI GMPI
FIELD AVAILABILITY: AB; GI
MANUAL CODES: CPI: M23-D01B3
EPI: X24-B02X

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